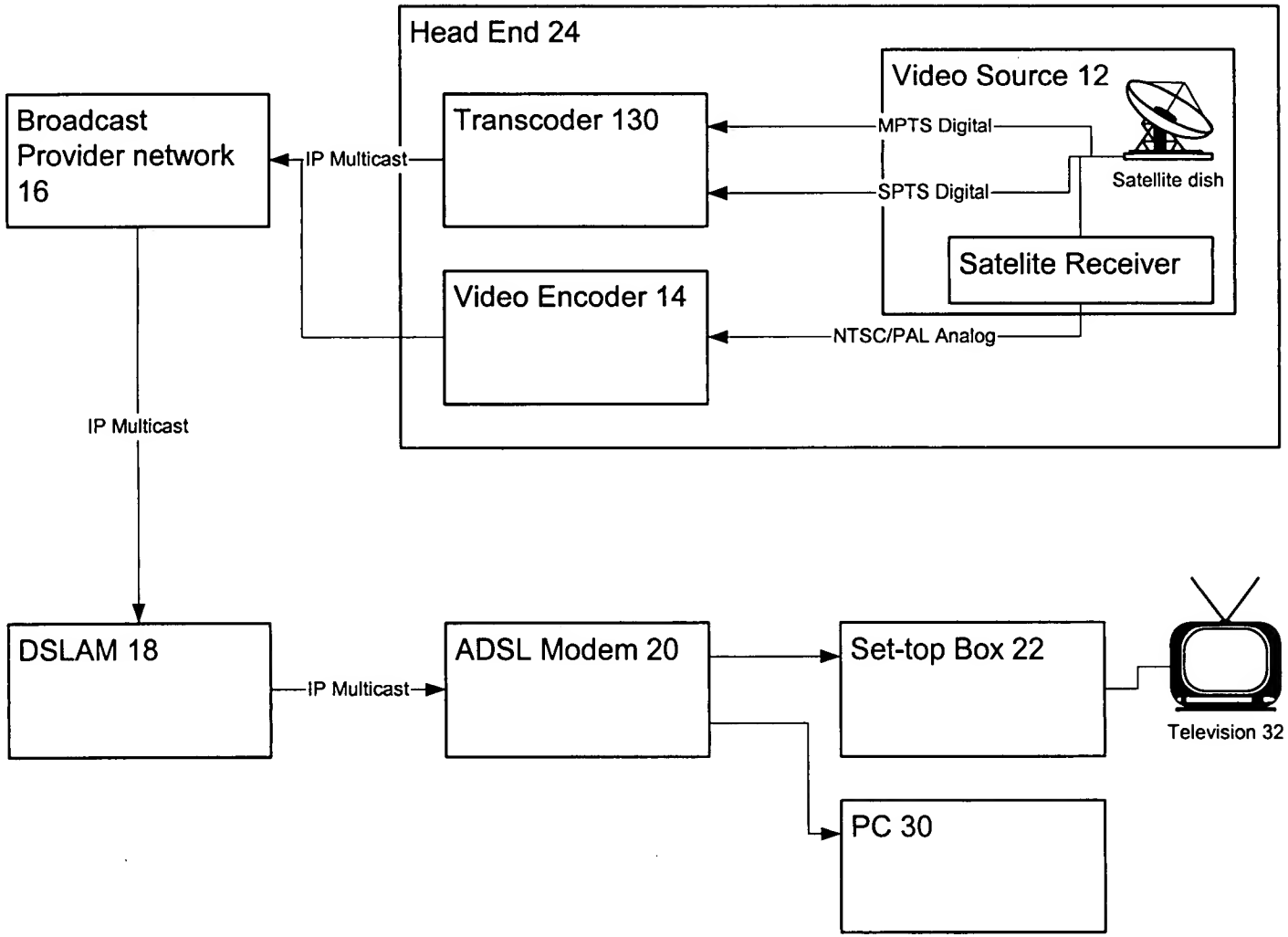

Head End 24
Video Source 12
Broadcast Provider network 16
IP Multicast
Transcoder 130
MPTS Digital
SPTS Digital
Satellite dish
Satelite Receiver
Video Encoder 14
NTSC/PAL Analog
IP Multicast
DSLAM 18
IP Multicast
ADSL Modem 20
Set-top Box 22
Television 32
PC 30

Figure 1

08260 6h8S2960

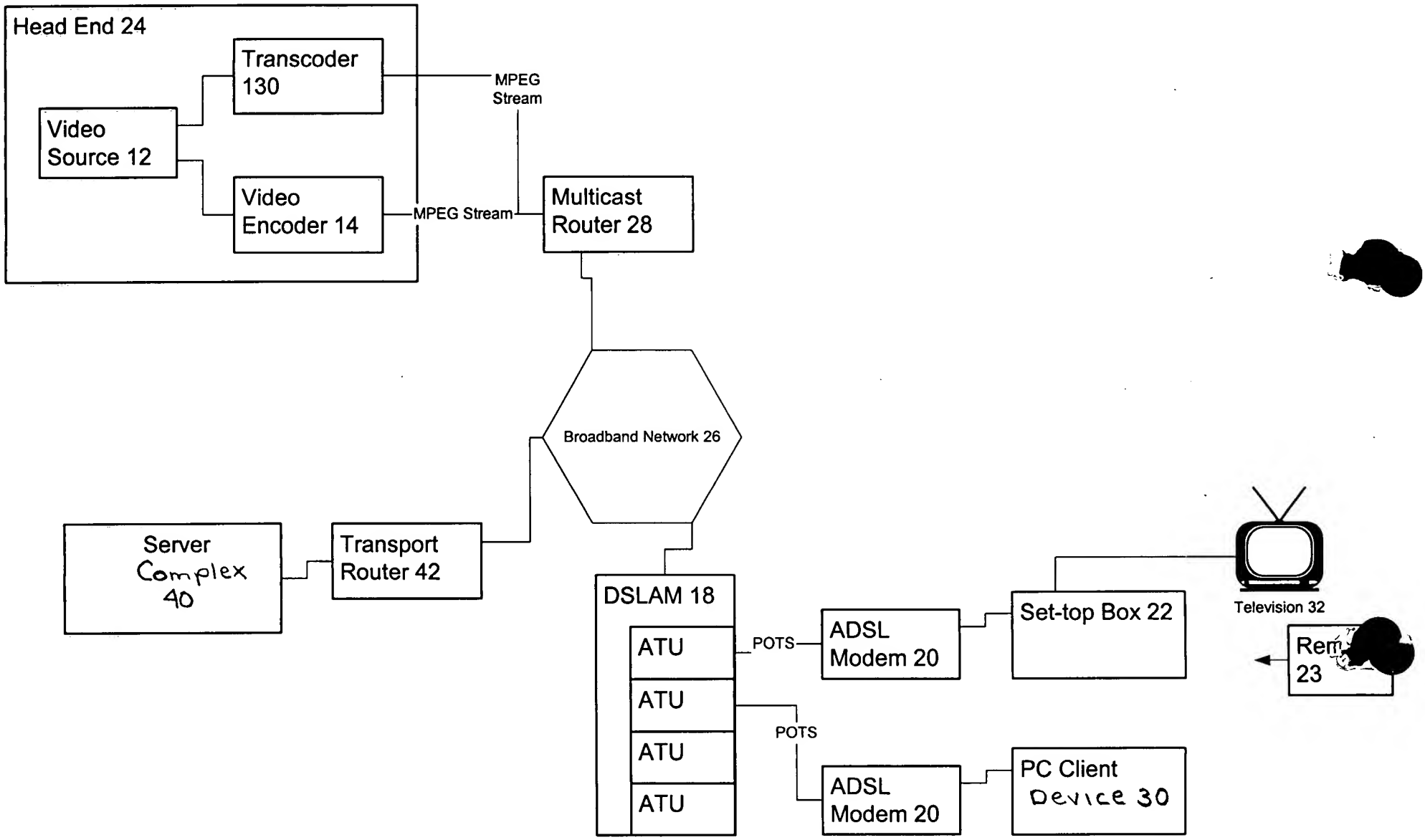


Figure 2

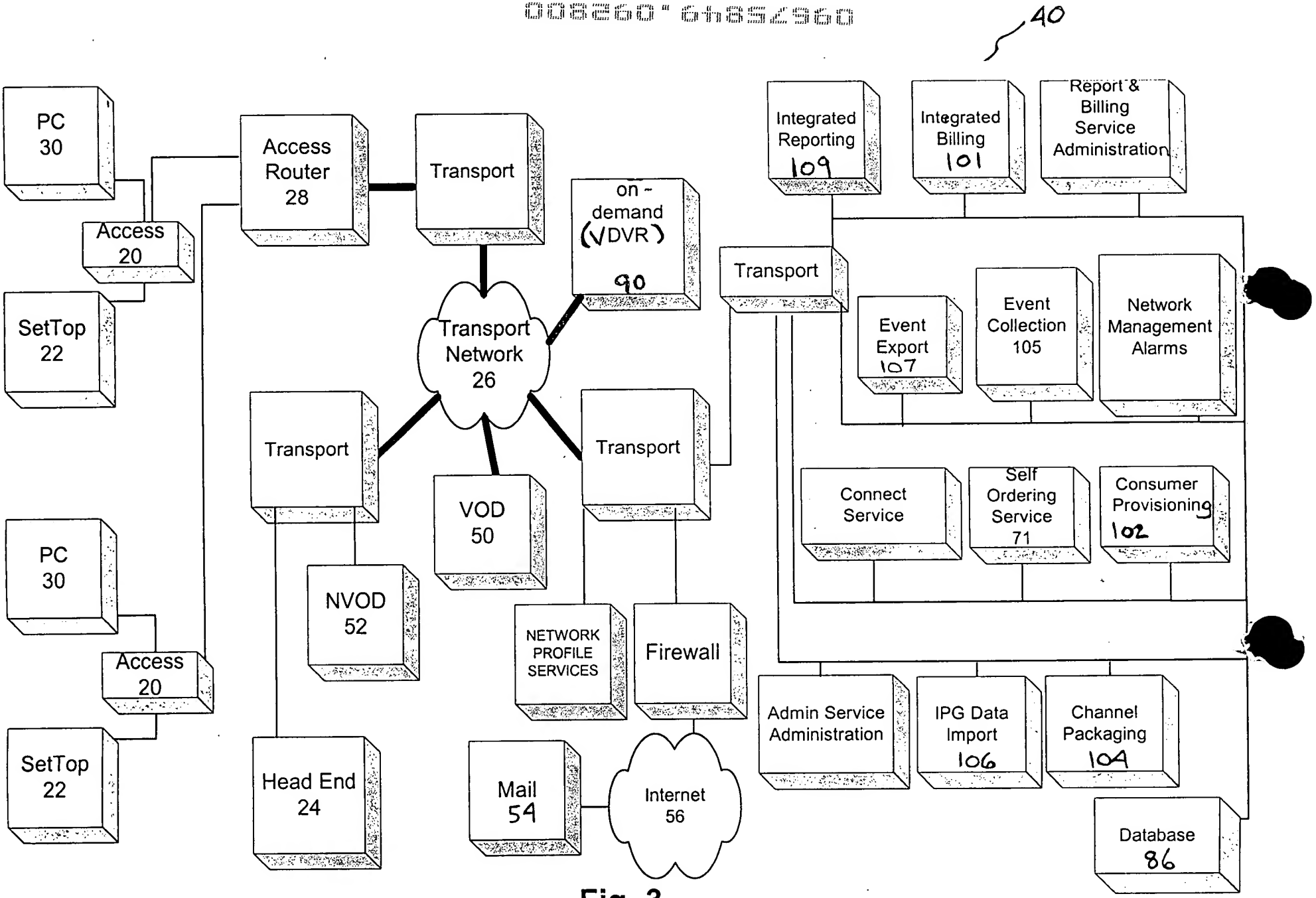
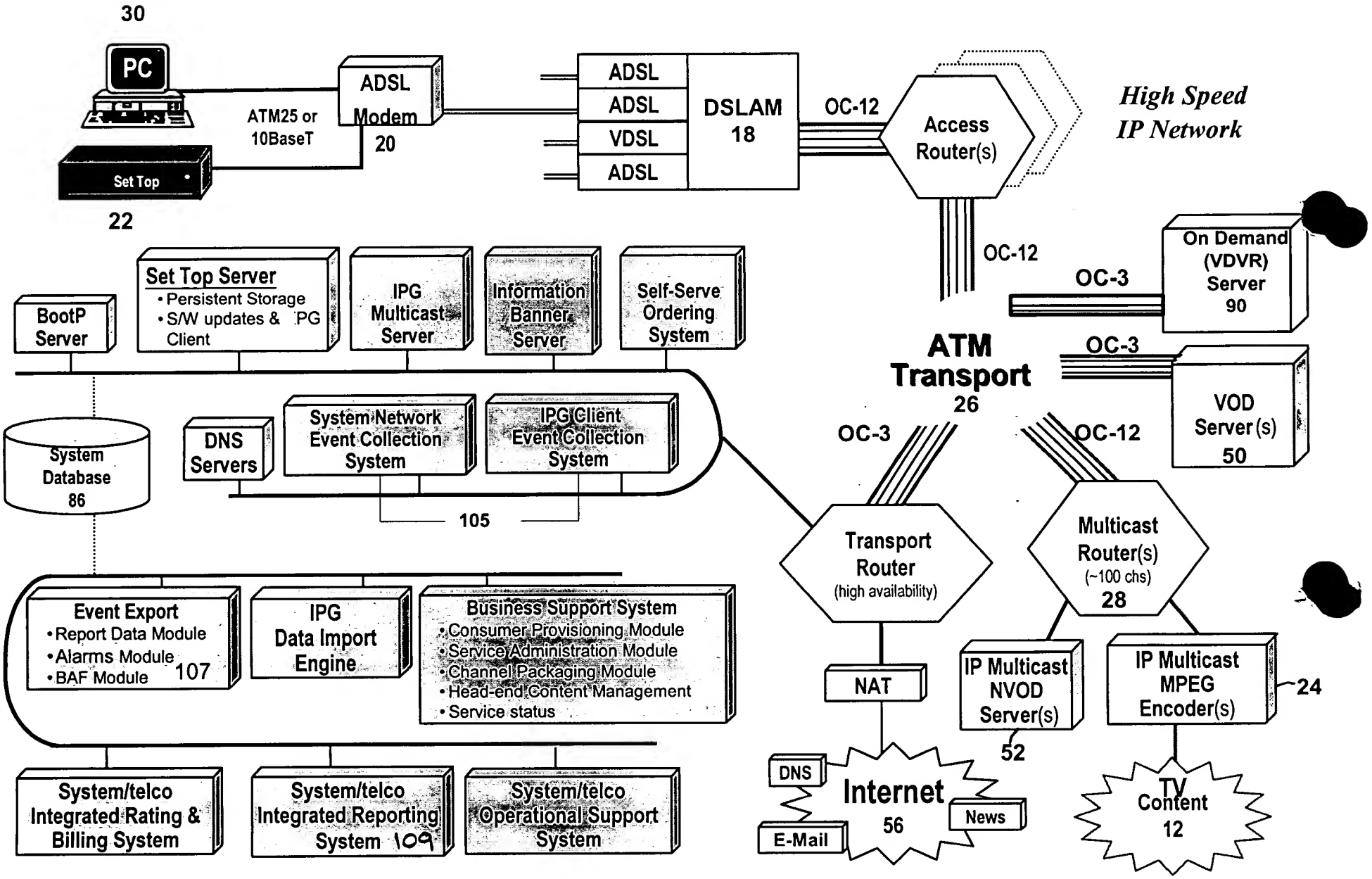

40
PC 30
Access 20
SetTop 22
Access Router 28
Transport
on - demand (VDVR) 90
Transport Network 26
Transport
Transport
VOD 50
NVOD 52
NETWORK PROFILE SERVICES
Firewall
PC 30
Access 20
SetTop 22
Head End 24
Mail 54
Internet 56
Integrated Reporting 109
Integrated Billing 101
Report & Billing Service Administration
Transport
Event Export 107
Event Collection 105
Network Management Alarms
Connect Service
Self Ordering Service 71
Consumer Provisioning 102
Admin Service Administration
IPG Data Import 106
Channel Packaging 104
Database 86

Fig. 3

Fig. 4


30
PC
Set Top
22
ATM25 or 10BaseT
ADSL Modem 20
ADSL
ADSL
VDSL
ADSL
DSLAM 18
OC-12
Access Router(s)
High Speed IP Network
OC-12
OC-3
On Demand (VDVR) Server 90
OC-3
VOD Server(s) 50
ATM Transport 26
OC-3
OC-12
Set Top Server
• Persistent Storage
• S/W updates & IPG Client
IPG Multicast Server
Information Banner Server
Self-Serve Ordering System
BootP Server
System Database 86
DNS Servers
System Network Event Collection System
IPG Client Event Collection System
105
Transport Router (high availability)
Multicast Router(s) (~100 chs) 28
Event Export
• Report Data Module
• Alarms Module
• BAF Module 107
IPG Data Import Engine
Business Support System
• Consumer Provisioning Module
• Service Administration Module
• Channel Packaging Module
• Head-end Content Management
• Service status
NAT
IP Multicast NVOD Server(s) 52
IP Multicast MPEG Encoder(s) 24
DNS
E-Mail
Internet 56
News
TV Content 12
System/telco Integrated Rating & Billing System
System/telco Integrated Reporting System 109
System/telco Operational Support System

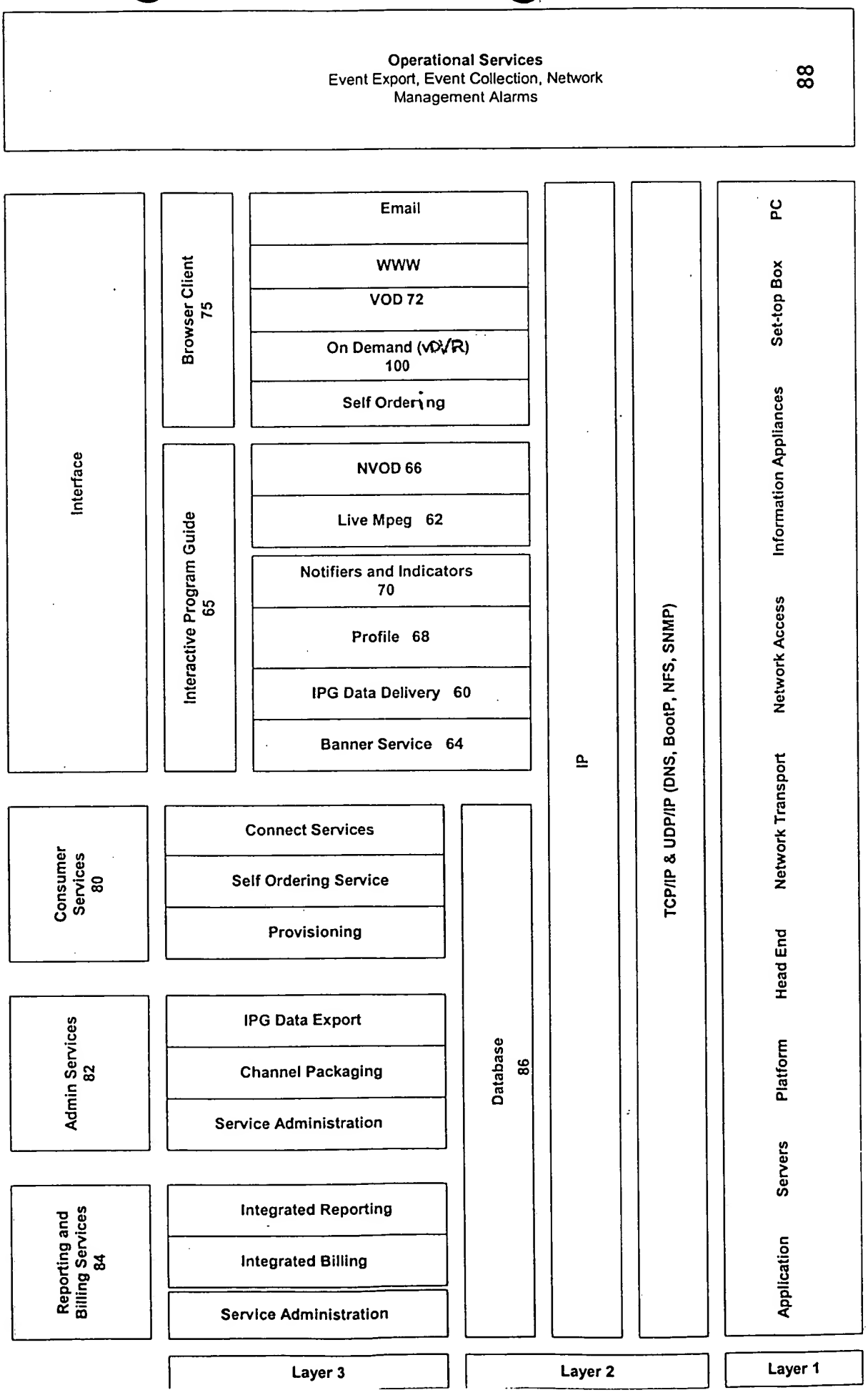

Operational Services
Event Export, Event Collection, Network Management Alarms
88
Interface
Browser Client 75
Email
WWW
VOD 72
On Demand (VOD/R) 100
Self Ordering
Interactive Program Guide 65
NVOD 66
Live Mpeg 62
Notifiers and Indicators 70
Profile 68
IPG Data Delivery 60
Banner Service 64
IP
TCP/IP & UDP/IP (DNS, BootP, NFS, SNMP)
PC
Set-top Box
Information Appliances
Network Access
Network Transport
Head End
Platform
Servers
Application
Consumer Services 80
Connect Services
Self Ordering Service
Provisioning
Admin Services 82
IPG Data Export
Channel Packaging
Service Administration
Reporting and Billing Services 84
Integrated Reporting
Integrated Billing
Service Administration
Database 86
Layer 3
Layer 2
Layer 1

Fig. 5

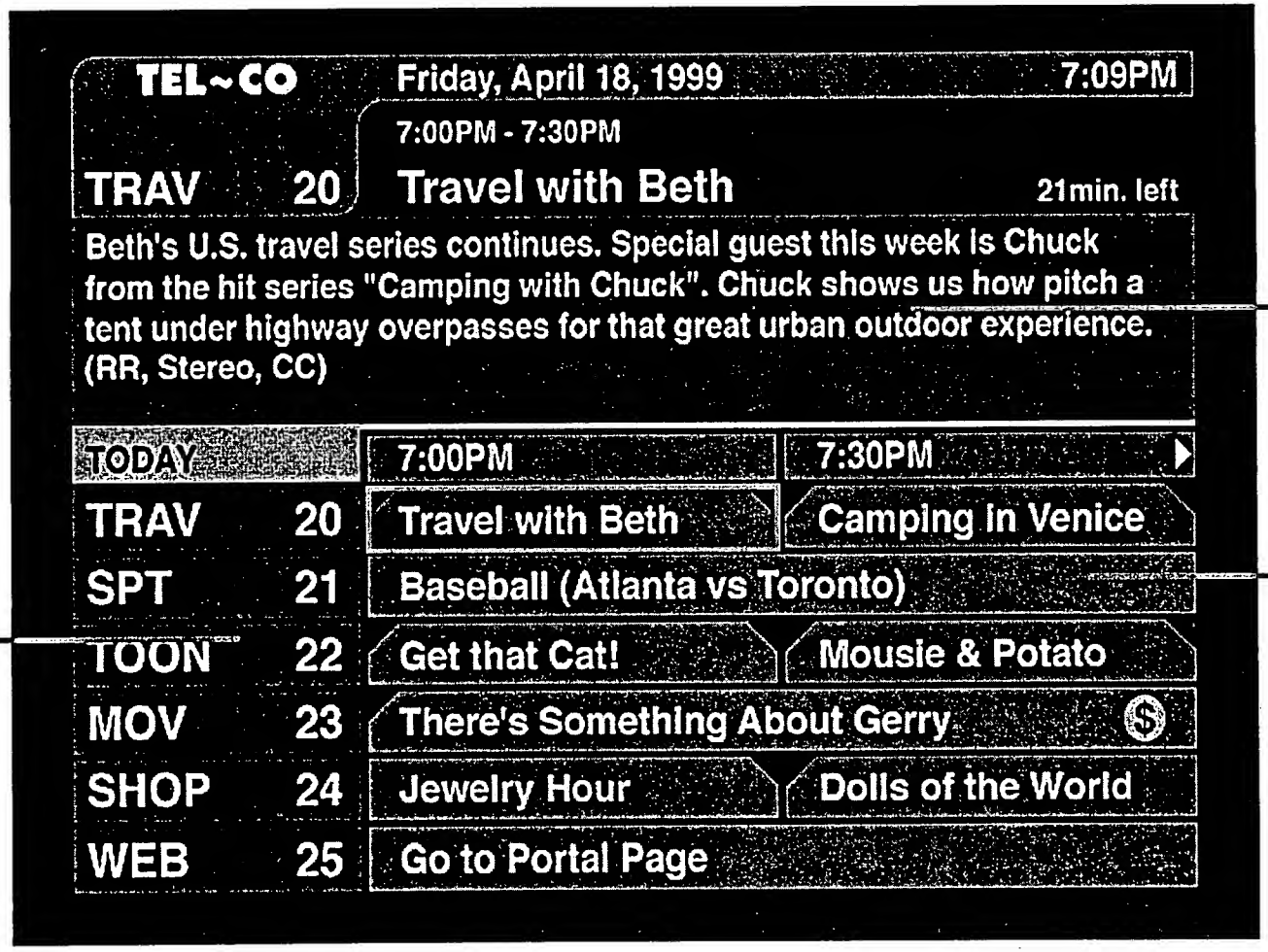

TEL~CO
Friday, April 18, 1999
7:09PM
7:00PM - 7:30PM
TRAV 20
Travel with Beth
21min. left
Beth's U.S. travel series continues. Special guest this week is Chuck from the hit series "Camping with Chuck". Chuck shows us how pitch a tent under highway overpasses for that great urban outdoor experience. (RR, Stereo, CC)
TODAY
7:00PM
7:30PM
TRAV 20
Travel with Beth
Camping in Venice
SPT 21
Baseball (Atlanta vs Toronto)
TOON 22
Get that Cat!
Mousie & Potato
MOV 23
There's Something About Gerry
SHOP 24
Jewelry Hour
Dolls of the World
WEB 25
Go to Portal Page
121
123
126

Fig.6

Figure 7

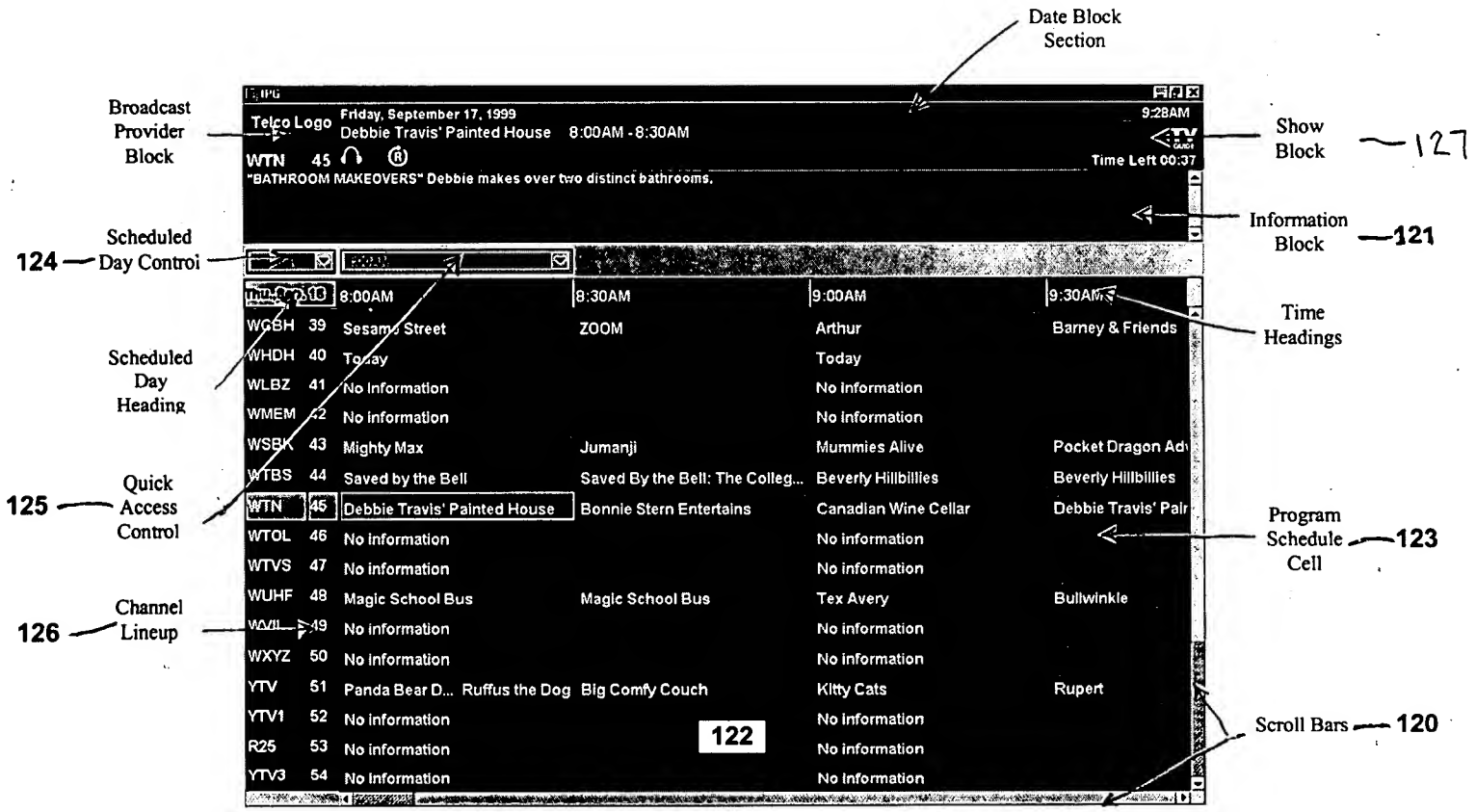

Date Block Section
Broadcast Provider Block
Telco Logo
Friday, September 17, 1999
Debbie Travis' Painted House 8:00AM - 8:30AM
9:28AM
Show Block
127
WTN 45
Time Left 00:37
"BATHROOM MAKEOVERS" Debbie makes over two distinct bathrooms.
Information Block
121
Scheduled Day Control
124
8:00AM
8:30AM
9:00AM
9:30AM
Time Headings
Scheduled Day Heading
WGBH 39 Sesame Street ZOOM Arthur Barney & Friends
WHDH 40 Today Today
WLBZ 41 No Information No Information
WMEM 42 No information No information
WSBK 43 Mighty Max Jumanji Mummies Alive Pocket Dragon Ad
WTBS 44 Saved by the Bell Saved By the Bell: The Colleg... Beverly Hillbillies Beverly Hillbillies
Quick Access Control
125
WTN 45 Debbie Travis' Painted House Bonnie Stern Entertains Canadian Wine Cellar Debbie Travis' Pair
Program Schedule Cell
123
WTOL 46 No information No information
WTVS 47 No information No information
WUHF 48 Magic School Bus Magic School Bus Tex Avery Bullwinkle
Channel Lineup
126
WXYZ 50 No information No information
YTV 51 Panda Bear D... Ruffus the Dog Big Comfy Couch Kitty Cats Rupert
YTV1 52 No information No information
R25 53 No information No information
122
Scroll Bars
120
YTV3 54 No information No information

Fig. 8

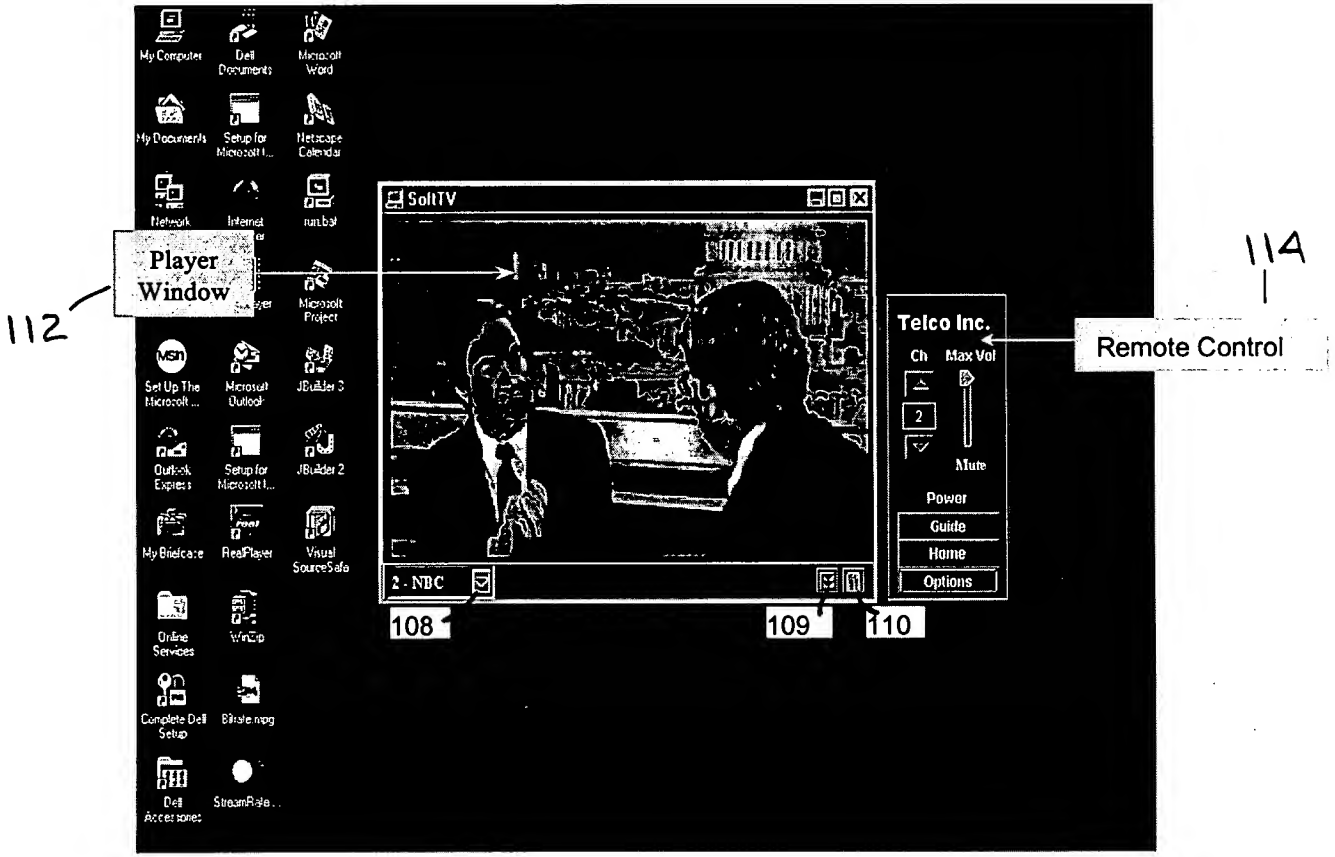

Player Window
112
SoftTV
114
Telco Inc.
Ch
Max Vol
2
Mute
Power
Guide
Home
Options
Remote Control
2 - NBC
108
109
110

Figure 9

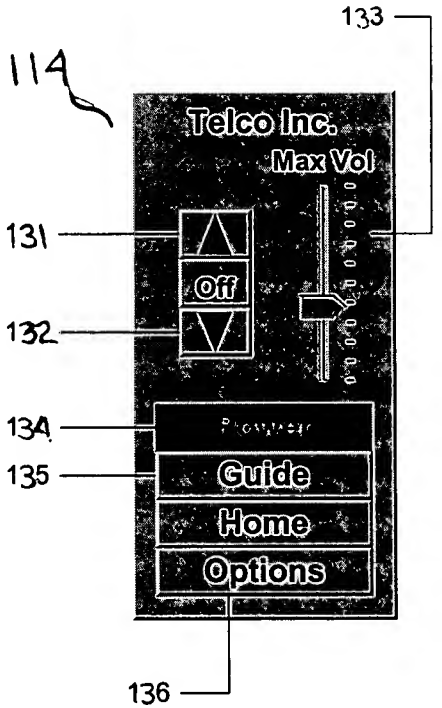
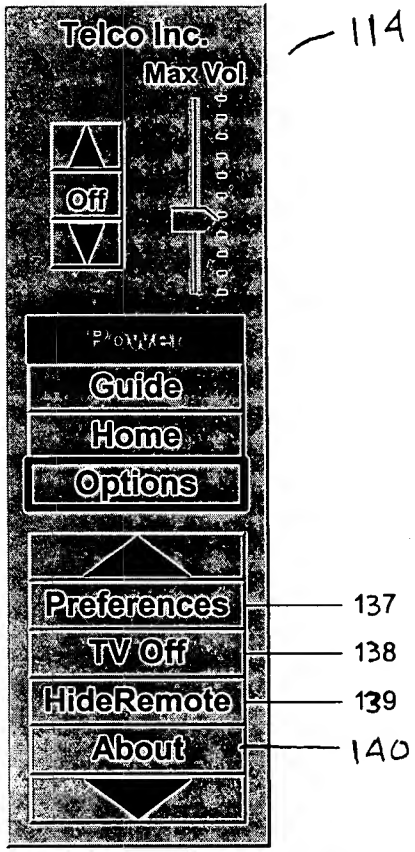


Figure 10



00260 "6h852960

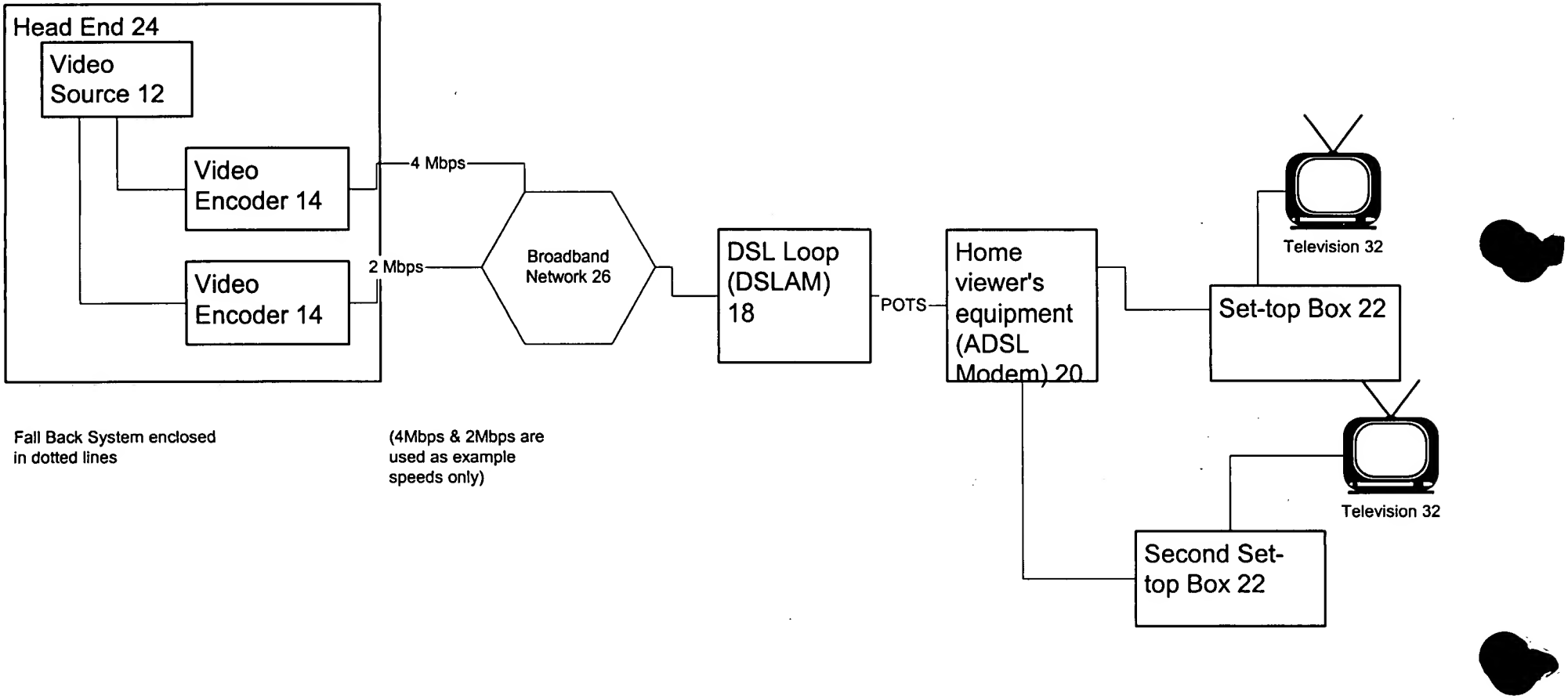


Figure 11